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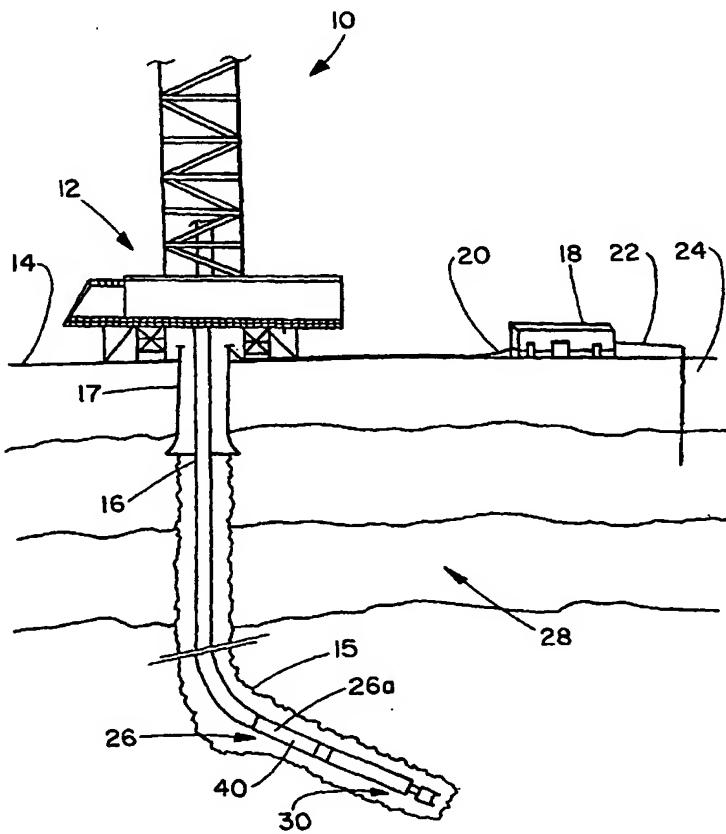
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(54) Title: EXTENDED RANGE EMF ANTENNA



(57) Abstract: A measuring while drilling system typically has a metal pipework extending underground connected to an antenna. The metal pipework and the antenna are both connected to a type of downhole equipment. The antenna transmits or receives signals to/from a transceiver located on the surface, and the transceiver is connected to the metal pipework and to a ground. The system is improved by joining a plurality of sections of wired drill pipe together to form a section where the antenna is integral with the metal pipework. One end of the section of wired drill pipe is joined to downhole equipment and another end is joined to a conventional metal pipework.

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